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(54) Title: SOLID BIOCIDE FORMULATIONS

(57) Abstract: Abstract Biocidal compositions that contain biocidal components, such as an oxidant, and mixed with said components a combination of inorganic compounds capable of reducing the oxidative capacity of the biocidal components by forming a low-melting glass when heated. The biocidal composition may be heated by being ignited or subjected to a heating source, such as a fire.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00317

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01N 59/08, 25/00, 43/50, 43/66  
US CL : 424/665; 514/241, 385, 386, 769, 770

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 424/665; 514/241, 385, 386, 769, 770

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,731,195 A (OLSON) 15 March 1988 (15.03.1988), see entire reference, especially column 4, lines 16-68, Column 5.	1-16, 19, 20
Y	US 5,478,482 A (JONES et al.) 26 December 1995 (26.12.1995), see entire reference especially column 3, lines 30-68, columns 4-11.	17, 18, 23

Further documents are listed in the continuation of Box C.

See patent family annex.

### Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

01 October 2004 (01.10.2004)

Date of mailing of the international search report

23 DEC 2004

Name and mailing address of the ISA/US

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*23 DEC 2004 DAK*

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00317

### Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 21 and 22  
because they relate to subject matter not required to be searched by this Authority, namely:  
"Use" claims are not proper process claims under 35 USC 101.
  
2.  Claims Nos.: 21,22,24,25  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
Please See Continuation Sheet
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IL04/00317

## Continuation of Box II Reason 2:

Claims 21, 22 are indefinite they merely recites a use without any active, positive steps delimiting how this use is actually practiced. Claims 24, 25 are indefinite in that they fail to point out what is included or excluded by the claim language.

## Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: trichloroisocyanuric acid, hypochlorite, hydantoin, boric, borate, tetraborate, borosilicate, silicate, silica, silicon, glass, biocide, alum, aluminum sulfate